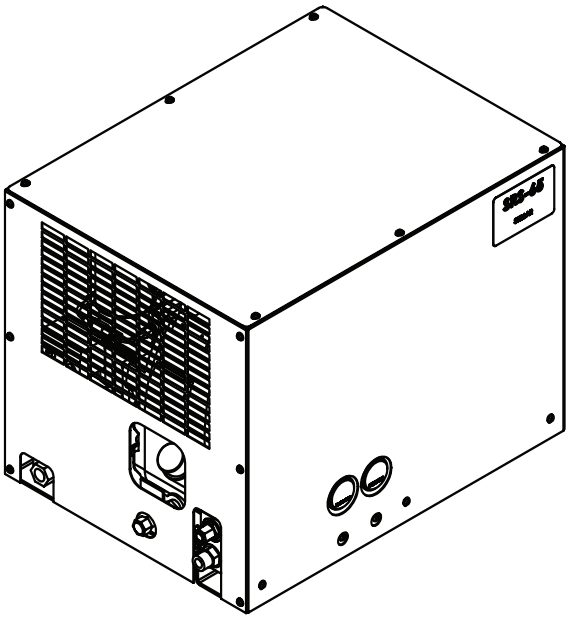
# Owner's Manual

Safety, Installation, Maintenance, and Operation

## Model SRS-65

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# Introduction

American Eagle Compressors are designed to provide safe and dependable service for a variety of operations. With proper use and maintenance, American Eagle Compressors will operate at peak performance for many years.

This manual contains information vital to the safe use and efficient operation of this unit. Following the information provided within this manual can ensure the longevity of the compressor. Carefully read and study the operator's manual before using the unit. Failure to adhere to the instructions could result in property damage or even serious bodily injury to the operator or others close to the compressor.

A copy of this manual is provided with every compressor and shall remain with the compressor at all times. Information contained within this manual does not cover all maintenance, operating, or repair instructions pertinent to all possible situations. This manual is not binding. American Eagle reserves the right to change, at any time, any or all of the items, components, and parts deemed necessary for product improvement or commercial/production purposes. This right is kept with no requirement or obligation for immediate mandatory updating of this manual.

This product manual is not intended as a training manual for beginners or unskilled operators. This manual offers guidelines for correct and safe usage of the compressor, maintenance, and troubleshooting. If more information is required or technical assistance is needed, please contact AE Technical Support.

Some sections of this manual contain information pertaining to all American Eagle manufactured compressors and may or may not apply to your specific model.

If this manual becomes damaged, misplaced, or unreadable at any point, or if you feel that any part of this manual is unclear or incorrect, please contact AE Technical Support at 800-321-3741 or email at service@americaneagleacc.com

**For Technical Questions, Information, Parts, or Warranty, Call Toll-Free at**

**800-321-3741**

Hours: Monday - Friday, 8:00 a.m. - 5:00 p.m. CST

Or email at the following addresses:

| | |
|---|---|
| **Technical Questions, and Information** | service@americaneagleacc.com |
| **Order Parts** | parts@americaneagleacc.com |
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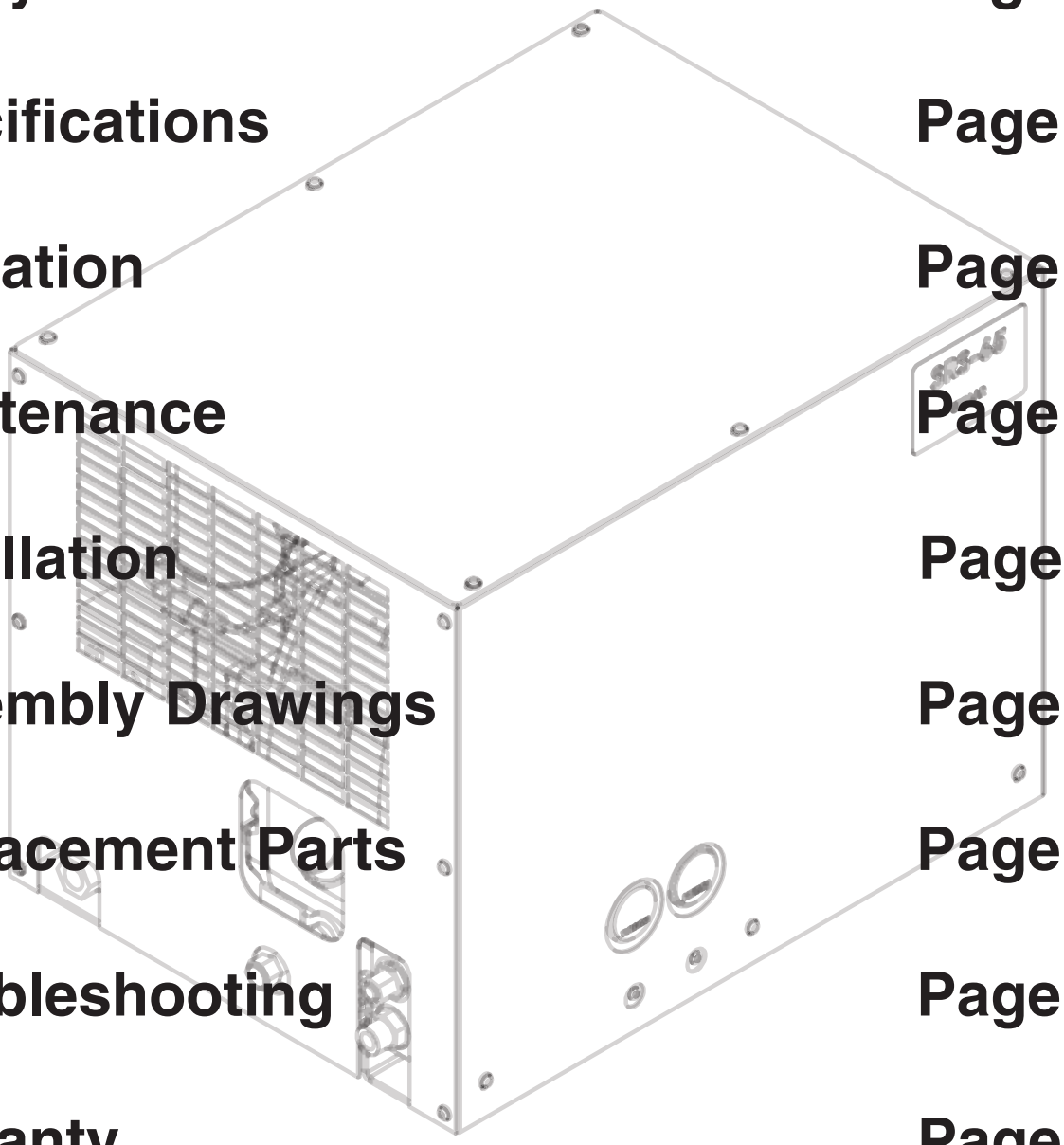


# Safety

This manual contains vital information for the safe use and efficient operation of this unit. Carefully read the operators manual before starting the unit. Failure to adhere to the instructions could result in serious bodily injury or property damage.

The SRS-65 Rotary Screw Compressor will provide safe and dependable service if operated according to instructions. Read and understand the safety precautions given in this manual and on the decals attached to the shields. Failure to do so can result in personal injury or equipment damage.

Operators and maintenance personnel must always comply with the safety precautions. These precautions are given here for your safety. Review them carefully before operating the compressor and before performing maintenance or repairs.

Supervising personnel should develop additional precautions relating to the specific work area and local safety regulations.

**Precautions**

Always wear safety equipment such as goggles, ear plugs and head protection at all times when operating the compressor.

Do not inspect or clean the compressor while the power source is connected. Accidental engagement of the tool can cause serious injury.

Before performing any maintenance on the compressor, place a warning tag on the hydraulic power source or disconnect the hoses from the compressor motor to prevent accidental startup of the compressor.

Always connect hoses to the compressor before energizing the power source. Be sure all hose connections are tight.

Establish a training program for all operators to ensure safe operation.

Do not operate the compressor unless thoroughly trained or under the supervision of an instructor.

Do not operate the compressor if it is damaged, improperly adjusted or not completely or properly assembled.

Never operate the compressor with any of the guards removed.

Do not attempt to adjust or disable the compressors air pressure relief valve. This valve limits the air pressure to 150 PSI.

The surface of the air compressor and the plumbing between the compressor and the cooler may reach temperatures above 150 degrees. Touching these surfaces during operation can cause burns.

The air taken in by the air compressor must be free of flammable fumes and vapors.

Compressor speed should not exceed 8000 RPM.

Use and operate this air compressor only in full compliance with all pertinent O.S.H.A. requirements and all Federal, State and Local codes or requirements.

# Specifications

| Compressor System Description | |
|---|---|
| • 19-20 GPM Hydraulic System | • 2500 PSI System Pressure |
| • 2600 PSI Pressure Relief Setting | • 12 VDC Solenoid Control Valve |
| • All Steel Plumbing W/ JIC Fittings | • 6061 Aluminum Manifold |
| • 861 CFM, 12 Volt Cooler Fan | • Air Pressure Control Valve |
| • Belt Drive | • Max. Air Pressure 150 PSI |
| • Compressor RPM (small sprocket) 7000-7500 RPM | • 65 CFM @ 100 PSI With Compressor Running @ 7000 RPM @ 20 GPM |

| General Information | |
|---|---|
| • Model: | |
| • Weight: | 313 lbs. |
| • Cylinders: | |
| • Delivery: | 65 CFM @ 100 PSI |
| • Maximum Working Pressure: | 150 PSI |
| • Relief: | 2600 PSI |
| • Maximum Compressor Speed: | 8000 RPM |
| • Delivery: | 65 CFM @ 100 PSI (7000-7500 RPM) |
| • Dimensions: | 29”L x 23”W x 22”H |
| • Electrical: | 12 VDC |
| • Crankcase Oil Capacity: | 5 Quarts |
| • Oil Reservoir Capacity: | Minimum: 26 Gallon Reservoir |

# Operation

Each compressor is bench tested under load at the factory to ensure proper break-in and operation. While it is not necessary to follow any break-in procedure, the following checks should be made before putting the unit into service and periodically during use.

## Before Start-Up

Inspect unit for any visible signs of damage.

Check the oil level in the compressor with the dipstick on the unit. If oil is needed, use American Eagle synthetic compressor oil (P/N C0087) or an equivalent synthetic oil. **Note: There may be oil left in the crankcase from the factory bench test. Overfilling may cause the compressor to back blow oil. Always check the oil level and fill to the designated marking on the dipstick before putting the unit into service.**

Check hoses (air and hydraulic) for weak or worn condition and make sure that all connections are secure.

Check the air intake filters on each head to make certain that they are clean and unobstructed. Dirty air filters are a possible cause of reduced air output.

**General Information**
To use the compressor, start the vehicle engine and engage the hydraulic system. The compressor can now be activated using the compressor switch. This energizes the hydraulic solenoid sending oil to the hydraulic drive motor and starts the compressor. Through the air pressure switch and pilot valve, the system will now function automatically. Once engaged, adjust the engine speed control to ensure that the compressor speed does not exceed 8000 RPM under load. Adjustment instructions are provided with the speed control unit.

**Air Pilot Valve Operation**
**(Head Unloading System)**
When the hydraulic system is engaged the compressor will pump air into the receiver until the pressure reaches 150 psi. At this time the air pilot valve senses the pressure in the receiver and engages an intake valve hold-open mechanism. The compressor will run free until the pressure in the receiver falls below 115 psi and the air pressure valve disengages the intake valve hold-open mechanism to allow the compressor to pump air. See head unloading system for detailed views and adjustment instructions on the next page.

**Operating Notes:**
This reciprocating compressor must not be used for breathing air. To do so will cause serious injury whether air is supplied direct from the compressor source or to breathing tanks for later use. Any and all liabilities for damage or loss due to injuries, death and/or property damage, including consequential damages stemming from the use of this compressor to supply breathing air will be disclaimed by the manufacturer.

The use of this compressor as a booster pump and/or to compress a medium other than atmospheric air is strictly non-approved and can result in equipment damage and/or injury. Non-approved uses will also void the warranty.

Never use plastic pipe or improperly rated metal pipe. Improper piping materials can burst and cause injury or property damage.

# Maintenance

The following table is a list of routine maintenance items, including service intervals. Service intervals are listed as hours, days, or weeks, whichever occurs first. American Eagle recommends that these service intervals be followed. Before performing any maintenance function “Lock Out” or “Tag Out” all sources of power. Be sure all air pressure in unit is relieved. Failure to do so may result in injury or equipment damage.

| Service Intervals | | | | |
|---|---|---|---|---|
| **Maintenance operation** | **Daily** | **Weekly** | **Monthly** | **Hourly** |
| Drain air tanks | ☑ | ☑ | ☑ | ☑ |
| Check crankcase oil level | ☑ | | | |
| Check fittings and airlines | ☑ | | | |
| Check hydraulic fluid level | ☑ | | | |
| Inspect and clean air intake filters | | ☑ | | |
| Clean and operate safety valves | | ☑ | | |
| Clean cooling fins on radiator/cooler | | ☑ | | |
| Inspect check valve | | ☑ | | |
| Replace Coalescering/Separator Cartridge | | | **12** | |
| Inspect and clean compressor valves | | | **6** | |
| Replace hydraulic filter | | | **6** | |
| Replace air filters/oil filter/compressor oil | | | **3** | |
| Tighten all fittings and fasteners | | | **3** | |
| Check all electrical connections | | | **3** | |
| Inspect and clean air check valve | | | | **250** |

Under normal operating conditions, oil changes are required every 3 months. When operating in a dirty environment, change the oil more frequently as your particular operating condition dictates.

**USE AE SYNTHETIC COMPRESSOR OIL P/N C0087.**
**COMPRESSOR CRANKCASE CAPACITY IS 4 QUARTS.**

General preventative maintenance includes maintaining proper fluid level in both systems and the general cleanliness of the equipment. Proper fluids according to the specifications are required.

# SRS-65 Oil Level

The oil level in the oil receiver container is an important factor for the operational reliability of the system.

**Check Intervals:**
1. Before starting unit.
2. Every 100 operating hours

**Check Procedures:**
1. Switch off the unit with main power and prevent it from accidentally being turned on.
2. Allow one full minute to pass after stopping compressor.
3. Unscrew the cap of the inlet connection pipe with the oil receiver discharged.
4. Check the oil level with the dipstick.
5. Add oil to level if necessary.
6. Tighten cap back into place and unit is ready to be put into service
7. Check for impermeability and replace the o-ring if required.

**Note:**

- The screw-type cap of the compressor crankcase is equipped with a pressure release hole, which emits air/oil if the pressure has not been alleviated from the separator receiver. In this case wait a few minutes for the pressure to release before removing cap totally.

- The oil fill is designed in such a way that the unit cannot be over filled. Any excess oil runs out the fill.

# Condensation Drain

The condensation in the oil affects the operation safety and the life of the screw compressor unit. If you operate the screw compressor unit for a short period of time and therefore at a low operation temperature, i.e. below the switch temperature of the thermal oil bypass valve, you run the risk of condensation collecting in the oil separator receiver. The relative humidity in the intake air determines the quantity of condensation.

**Possible Malfunctions:**
- Insufficient compressor lubrication.
- Insufficient air/oil separation and high differential pressure in the purifier cartridge.
- Corrosion and rust formation due to condensation in the oil.

Drain the condensation regularly when the compressor unit is cold prior to startup.

**Maintenance Procedure:**
1. Switch off the main power to the unit.
2. Slowly unscrew the oil fill cap.
3. Unscrew the oil drain plug carefully and place a container underneath.
4. Drain the condensation from the separator receiver until oil starts to come out. Then replace the drain plug.
5. Fill separator receiver with oil up to maximum, then close oil fill.
6. Switch on compressor and run for 3 minutes.
7. Check oil level and fill if necessary.
8. Dispose of condensation in accordance with local and federal regulations.

## Changing the Oil

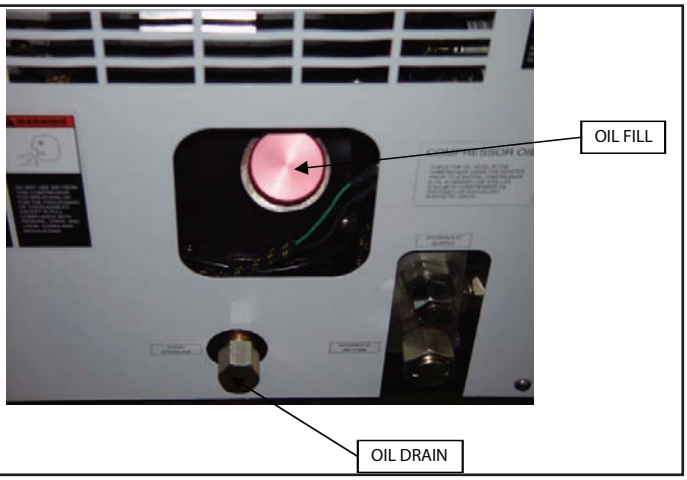
# WARNING

**You may change the unit oil only when the unit has been stopped and completely discharged.**

Note: Prior to changing the unit oil make sure the unit has an operating temperature 140-175°F (60-80°C).

**Maintenance Procedure:**

1. Switch off the main power to the unit.
2. Slowly unscrew the oil fill cap.
3. Unscrew the oil drain plug carefully and place a container underneath.
4. Drain the oil from the separator receiver until oil stops draining out. Then replace the drain plug.
5. Refill separator receiver with oil up to maximum, then close oil fill.
6. Switch on compressor and run for 3 minutes.
7. Check oil level and fill if necessary. Oil capacity is 5 quarts.




## Oil Recommendation

Screw compressors must be operated using the most suitable oil for operation. The compressor manufacturer must approve this oil for use. The oil must also be suitable for use in unfavorable conditions such as: contamination of the intake air by gases, solvent vapors, exhaust gases, and high ambient temperature conditions.

Suitable types and brands of oil may be specified on request. Suitable screw compressor oils can be mineral oils, synthetic oils, and biological degradable oils.

The substances and materials used in the compressor such as seals must be taken into account when selecting the types of oil. Corrosion or other material degradation must not occur.

**Important:** Do not mix different types of oil.

**Important:** In the case of ambient temperatures close to freezing, prevent the unit from freezing.

**Pipeline Materials:**
The oil used in screw compressors can degrade plastics used in air pipelines.

## Oil Requirements

**High aging stability**

**High disperse capacity**

**Low emulsification tendency**

**Flash point: above 400°F/ 200°C**

**Pour-point: 5° below lowest ambient temperature minimum**

**Minimum foaming**

**High corrosion protection**

**Hydraulic or turbine oil**

**Basic oil: solvate**

**Operating temperature: up to 230°F / 110°C**

**Viscosity class: ISO VG 68**

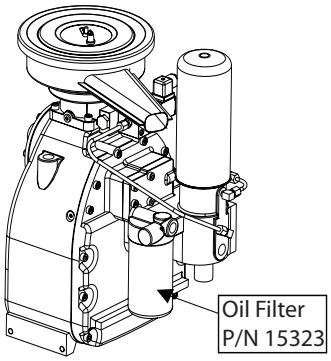
**Viscosity at 104°F / 40°C: ca. 42-50 mm2/s (cST)**

# Oil Filter

The oil filter is located in front of the unit. Replace it after the first 50 hours of service.
Then replace it every 1000 hours of service after that (or as soon as differential pressure is about 25 psig)

**Maintenance procedure:**

1. Switch off the main power to the unit. Fully relieve the unit of pressure.
2. Slowly unscrew and remove the oil filter with an oil filter wrench.
3. Grease the new filter gasket.
4. Before mounting the new filter hold it upright and fill it with the same type of oil as the compressor crankcase.
5. Thread the new filter onto the compressor by hand without any tools.
6. Run compressor for 3 minutes.
7. Check oil level and fill if necessary.

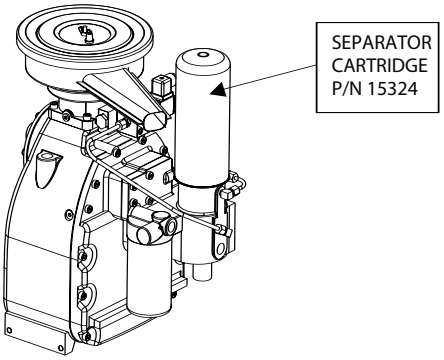



# Separator Cartridge

The separator cartridge is disposable and is located on top of the filter support.
The cartridge has to be replaced at least once per year and at a maximum of 5000 operating hours. The pressure will read above 14 psig. If intake air is often contaminated or the oil quality is poor, the cartridge will tend to clog earlier and will need changed more often.

**Maintenance Procedure:**

1. Switch off the main power to the unit. Fully relieve the unit of pressure.
2. Slowly unscrew and remove the cartridge with an oil filter wrench.
3. Screw the new cartridge onto the filter support using only your hands.
4. Write the date of change, and the operating hours on the cartridge.
5. Check to make sure that the cartridge is tight.
6. Run compressor for 3 minutes.
7. Check cartridge to make sure it is tight.



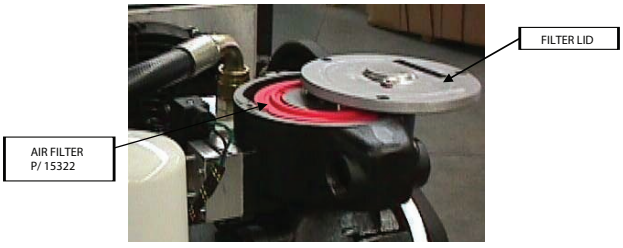

# Intake Filter

The air intake filter element shall be replaced every 100 hours of running time. The filter may require changing more often if the air pollution level is higher.

**Maintenance Procedure:**

1. Switch off the main power to the unit. Protect the unit from accidental re-start.
2. Open the filter lid and carefully remove dust and debris from the intake tray.
3. Carefully remove old filter and clean or renew it.
   - Clean the filter by knocking the filter against your hand.
   - Clean the filter with compressed air.
4. Close filter lid.
5. Test run the compressor to ensure proper installation.

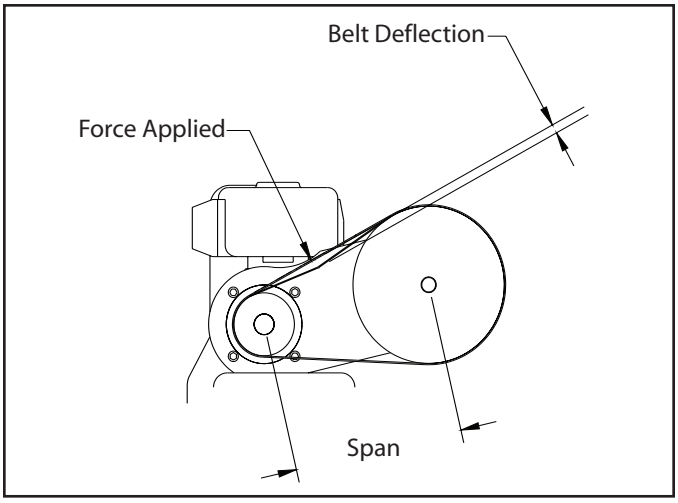
**ATTENTION: Any dirt or debris that reaches the intake will be ingested into the compressor and could cause irreversible damage.**



# Belt Tension

**NEW BELT**
INSTALLATION TENSION: 98.0 lbf
TENSIONING FORCE: 6.8 lbf
BELT DEFLECTION: 9/64 in
SPAN LENGTH: 9.50 in

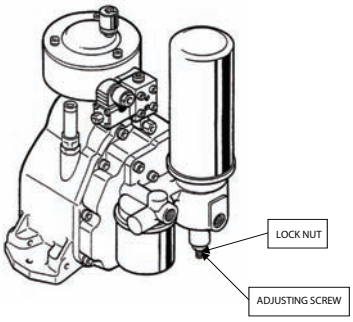
**USED BELT**
INSTALLATION TENSION: 65.4 lbf
TENSIONING FORCE: 4.8 lbf
BELT DEFLECTION: 9/64 in
SPAN LENGTH: 9.50 in




# Minimum Pressure Valve

At the factory, the relief valve is set at 64psi. When servicing the screw compressor a check of the minimum pressure may be necessary.

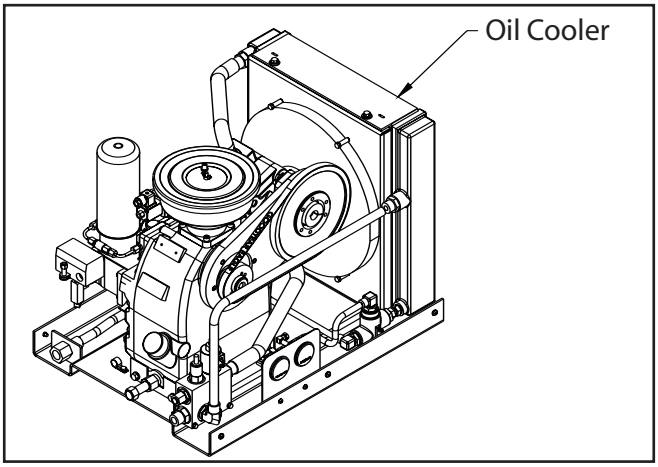
**Minimum Pressure Readjustment Procedure:**
1. Remove the locknut.
2. Turn the adjusting screw (turning the screw in increases the pressure).
3. Tighten locknut in place.




# Hydraulic Oil Cooler/Compressor Oil Cooler

For the operational safety of the unit clean the cooler regularly. Keep the cooling fins clean, this is a must to achieve maximum cooling from your cooler. Adequate cooling will prolong the life of your screw compressor. To clean your cooler use compressed air, steam jet, or a cleaning agent.

**Maintenance Procedure:**
1. Switch off the main power to the unit. Protect the unit from accidental re-start.
2. Remove cooler housing.
   a. Discharge unit.
   b. Drain oil.
   c. Remove cooler.
3. Clean and remove dirt.
4. Reassemble parts onto unit.
5. Check and fill oil level.
6. Test run the compressor to ensure proper installation and recheck oil level.



# Installation

## COMPONENT INSTALLATION

This section pertains to the installation of the air compressor, PTO, pump and other related items. The instructions are intended as a guide to assist you with particular installation. These instructions will provide only general information.

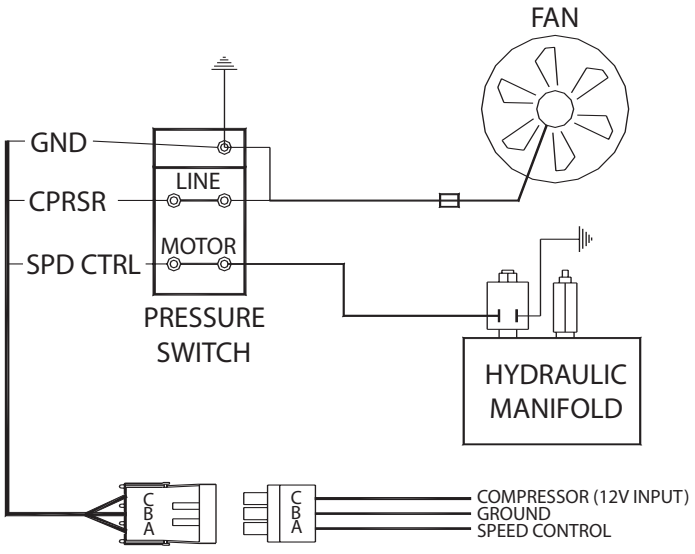
**Pump Assembly:**
The pump assembly may either be installed directly on the PTO or as an optional method, may be driven by a driveline from the PTO. Pump manufacturers provide specific installation information for their products and should be consulted if questions arise. *Note: A Dual or Tandem Hydraulic Pump is recommended when additional hydraulically operated equipment are added to the hydraulic system.*

**PTO Assembly:**
Check with the PTO manufactures representative for specific instructions regarding your particular make, model, and year of vehicle. As some trucks may require modification of the transmission cross member and the exhaust system, the manufacturer's instructions should be followed to insure proper installation of the PTO.

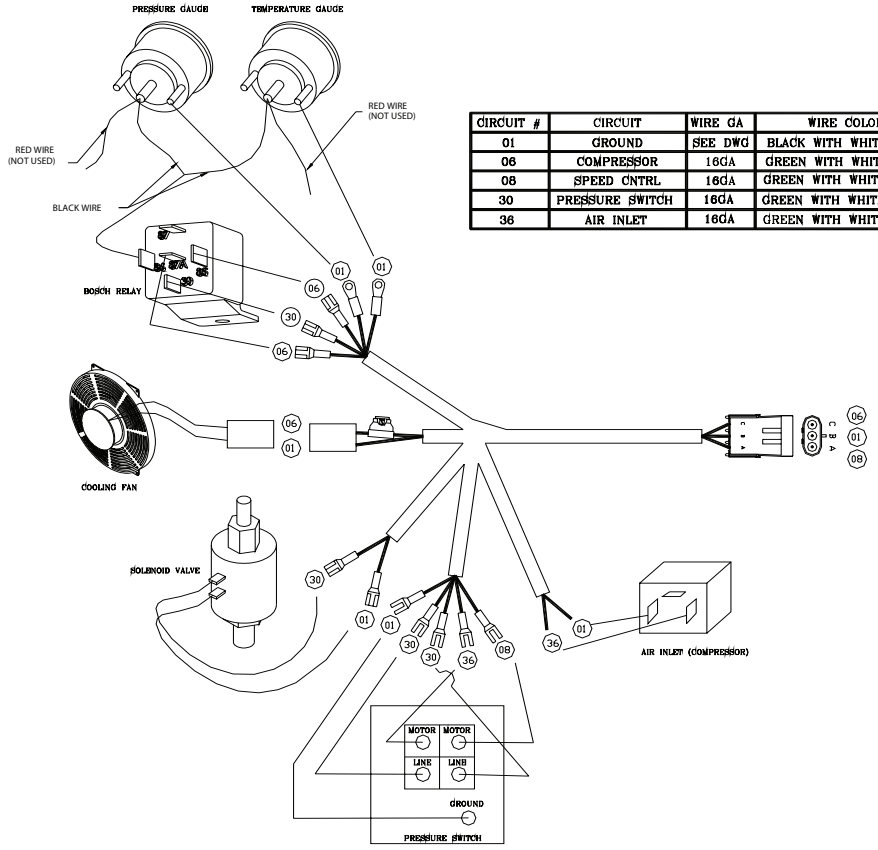
**Compressor Assembly:**
Prepare the mounting location of the compressor by locating and drilling four (4) holes, 1/2" diameter as per the mounting pattern of the air compressor base. Using four (4) 3/8" x 1.25 GR-5 cap screws, 3/8" flat washer, and 3/8" nyloc nut, secure the compressor in place. The compressor is air cooled, and must have a clean supply of cooling air to the fan with minimum restrictions. Adequate space must be provided for proper circulation of air.

**Electrical Connections:**
From the air pressure switch there are two (2) wires, red and black, running to the outside of the compressor housing. Connect the black wire to the vehicle frame or other suitable ground. Mount a single throw toggle switch in a convenient location and connect the red wire from the compressor to this switch. Connect the other switch terminal to a fuse holder and then to a 12-volt power supply. A third wire is required from the air compressor switch when connecting the speed control into the system. (See drawing on next page)

**Electric Speed Control:**
An optional electric or electronic speed control must be used to maintain proper operating speed of the air compressor. The engine speed control will automatically increase from idle to preset speed when engaged and decrease when disengaged.

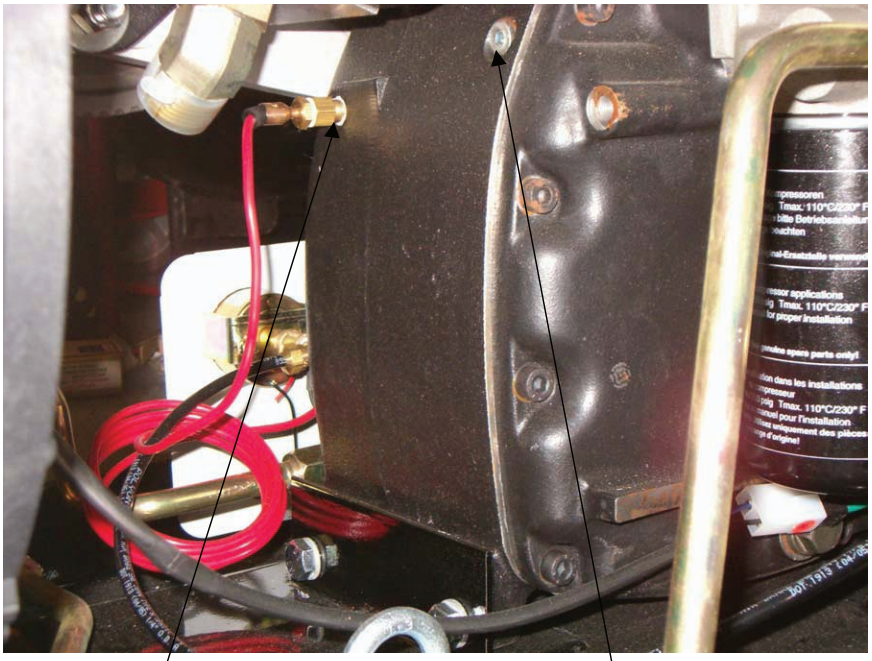


# SRS-65 Electrical Installation




| CIRCUIT # | CIRCUIT | WIRE GA | WIRE COLOR |
|---|---|---|---|
| 01 | GROUND | SEE DWG | BLACK WITH WHITE TEXT |
| 06 | COMPRESSOR | 16GA | GREEN WITH WHITE TEXT |
| 08 | SPEED CNTRL | 16GA | GREEN WITH WHITE TEXT |
| 30 | PRESSURE SWITCH | 16GA | GREEN WITH WHITE TEXT |
| 36 | AIR INLET | 16GA | GREEN WITH WHITE TEXT |

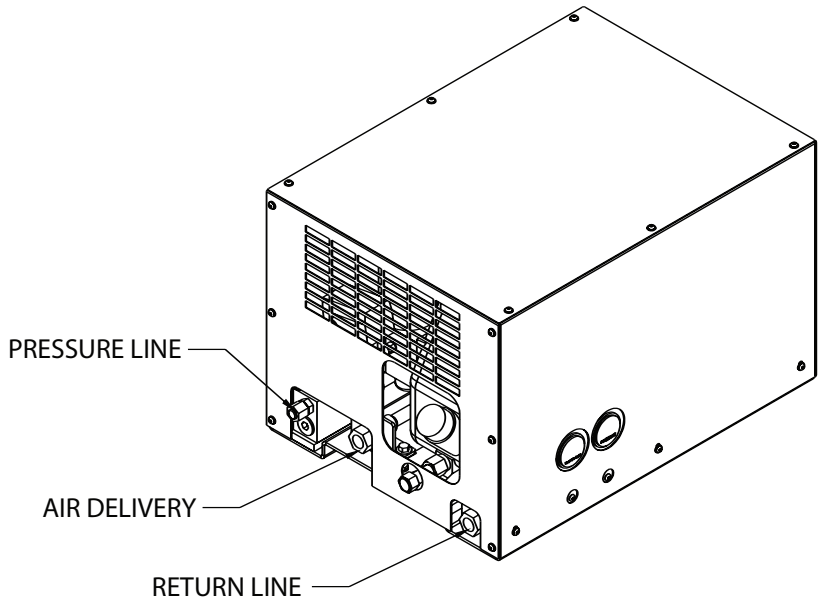
# Temperature Gauge Installation



USE THIS PORT FOR THE TEMP GAUGE PROBE

DO NOT ATTEMPT TO INSTALL TEMPERATURE GAUGE INTO THIS PORT. DAMAGE WILL RESULT!

# Component Installation Continued...

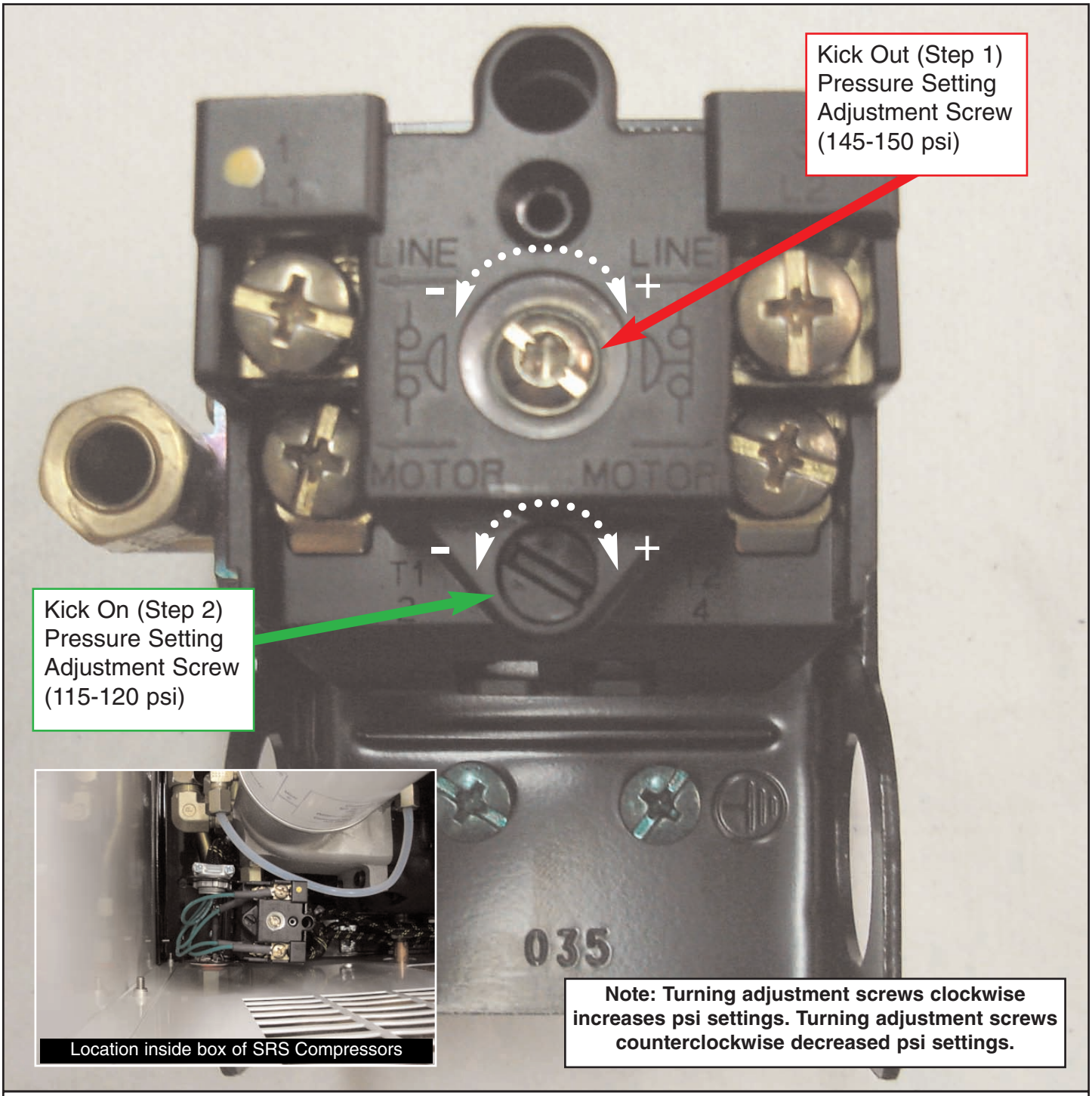



**Hydraulic System:**
The hydraulic system consists of the pump, oil reservoir, filters and hoses. Installed on the compressor is a valve block assembly that controls the flow to the hydraulic motor. To this block, a 1/2" high-pressure hose must be attached. This hose comes from the hydraulic pumps pressure side. A 3/4" minimum low-pressure return line is connected to the oil cooler outlet and is routed to the oil reservoir. American Eagle recommends a sufficient sized reservoir be provided that includes the proper suction and return filters. The cooler on the compressor is designed and sized to cool the air compressor efficiently. An auxiliary oil cooler is required when additional hydraulically operated equipment are added to the hydraulic system. Pressure on the return line exceeding 200 PSI can and will cause damage to the filter, cooler, and components of the compressor hydraulic system.

**Air System:**
The airline is routed using a 3/4" (200 psi) air hose. This delivery line should be free from all obstructions. When connecting to an air tank (American Eagle recommends a minimum of a ten gallon air tank be installed to maintain proper operation of the air compressor), a check valve must be installed.

***General Install Note:***
**When installing any air compressor, good manufacturing processes should be used. It is critical to allow for proper air circulation around the compressor assembly and all heated air should be allowed to exhaust to the outside if the compressor is mounted in an enclosed compartment. Maximum operating temperatures of the air compressor should not be exceeded.**

# Compressor Pressure Switch



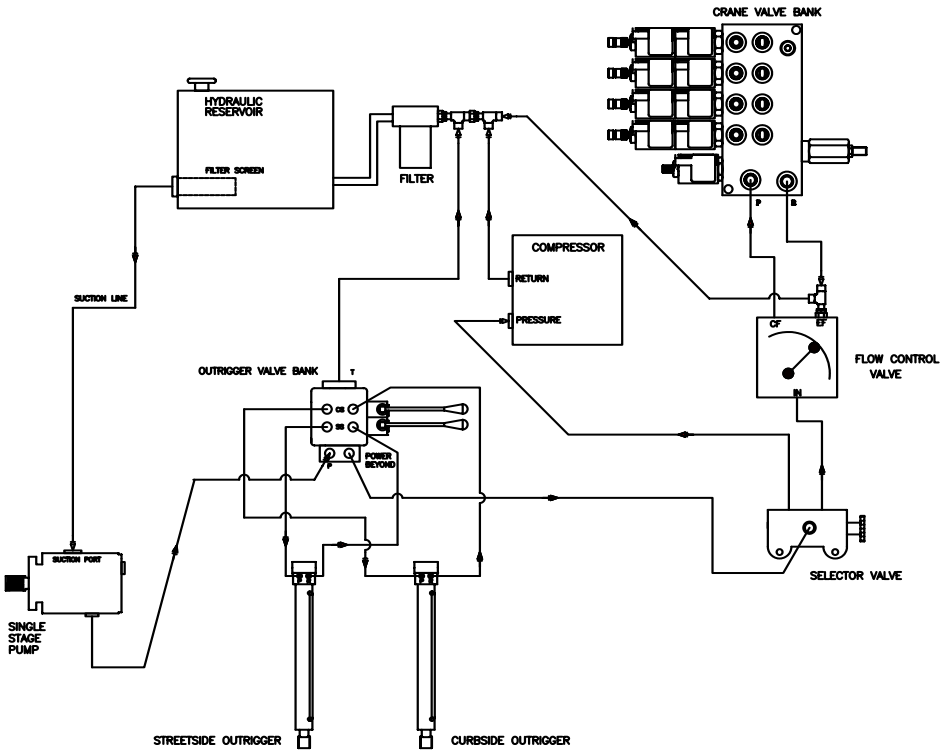


Location inside box of SRS Compressors

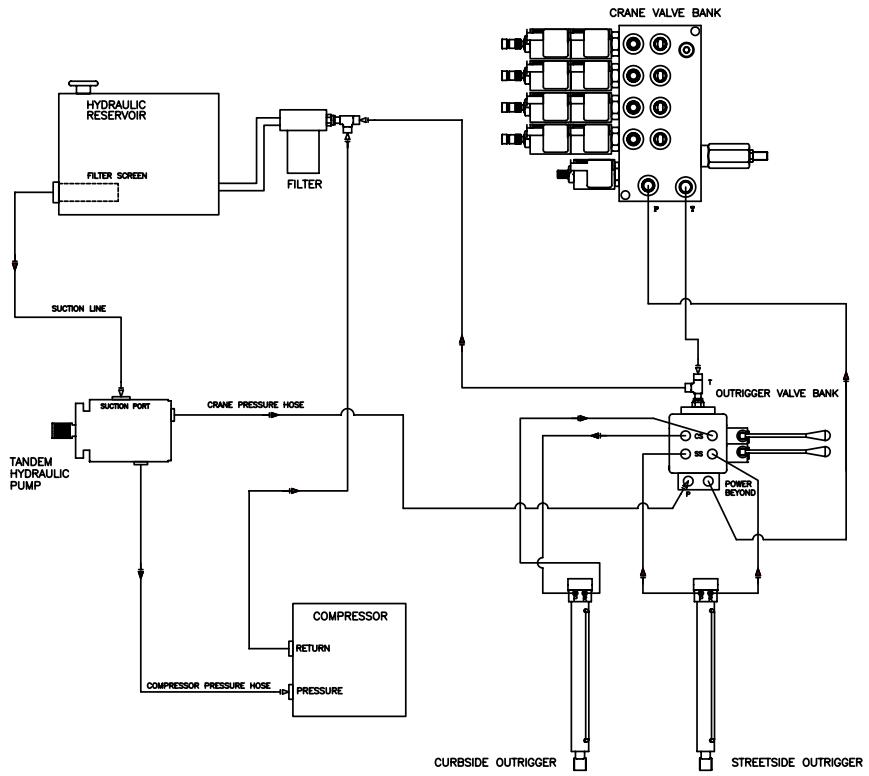
***Pressure Setting Instructions:***

1. **Always set the kick out pressure setting first.** 145 psi minimum/150 psi maximum.
2. After kick out pressure is set, adjust the kick on screw setting at 115 psi minimum/120 psi maximum.
3. Cycle compressor to verify correct settings.
4. For questions about this procedure, please contact Stellar Customer Service (Page 1).

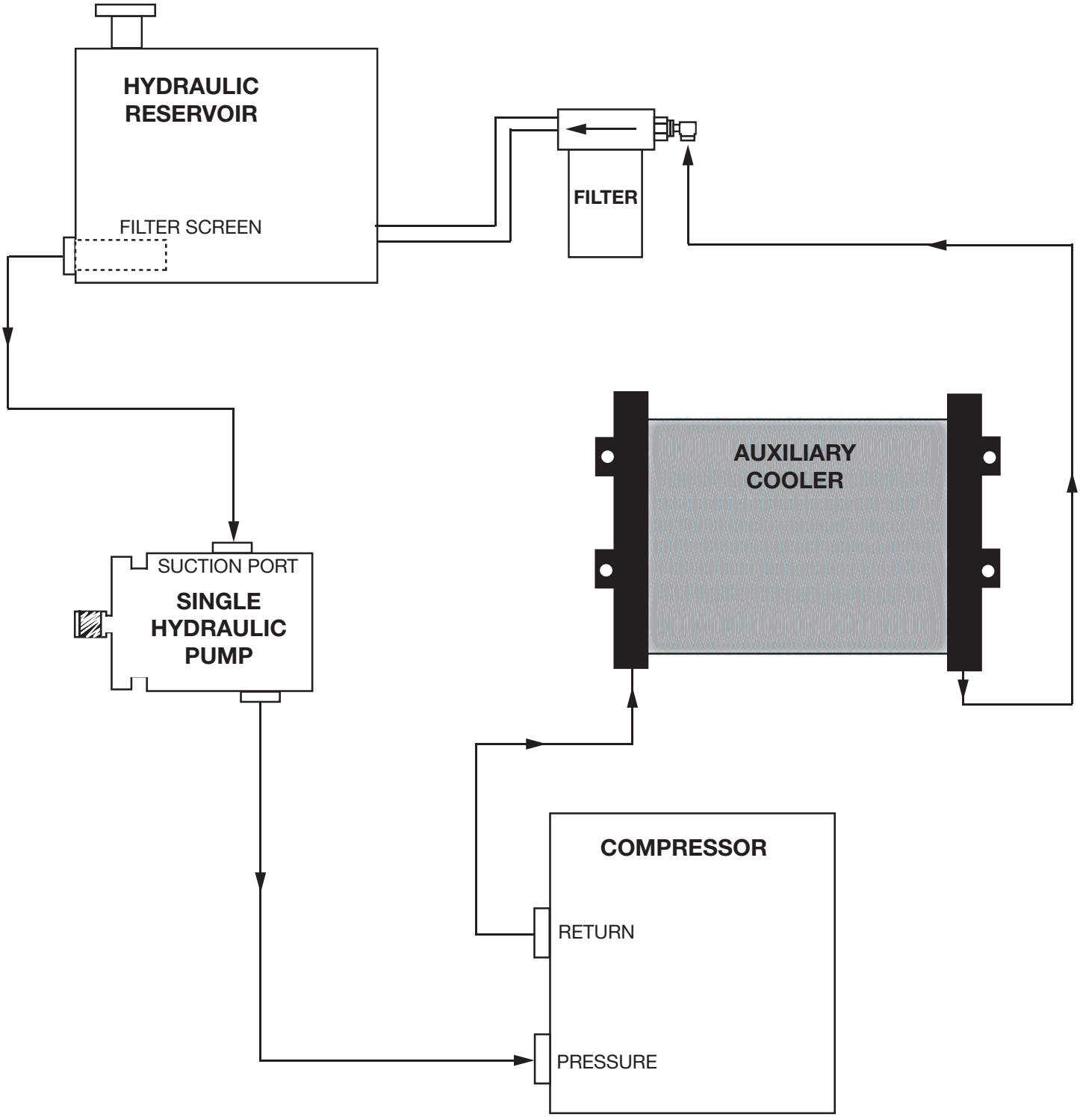
# Typical Hydraulic Circuit for Single Stage Pump with Multiple Components




# Typical Hydraulic Circuit for Tandum (Two Part) Pump with Multiple Components

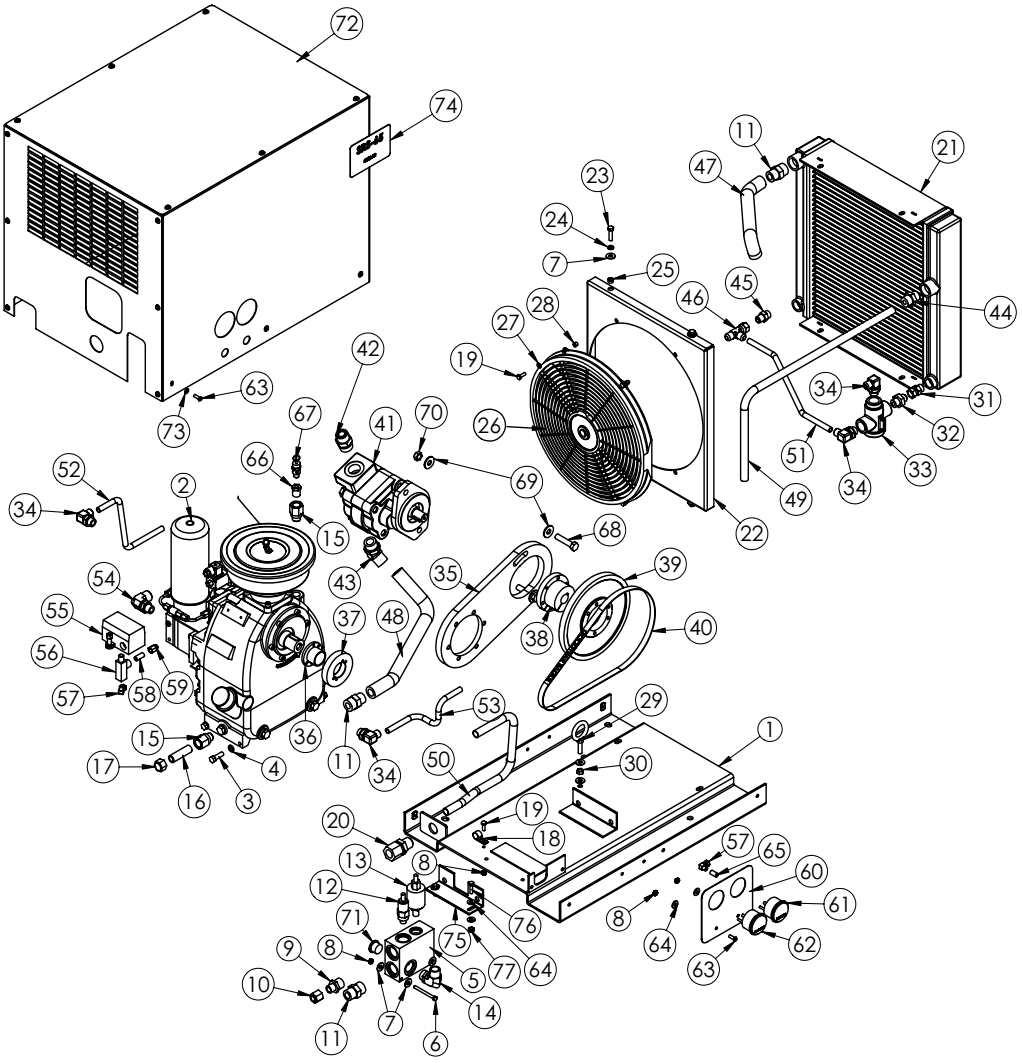


# Typical Hydraulic Circuit for Compressor with Auxiliary Cooler



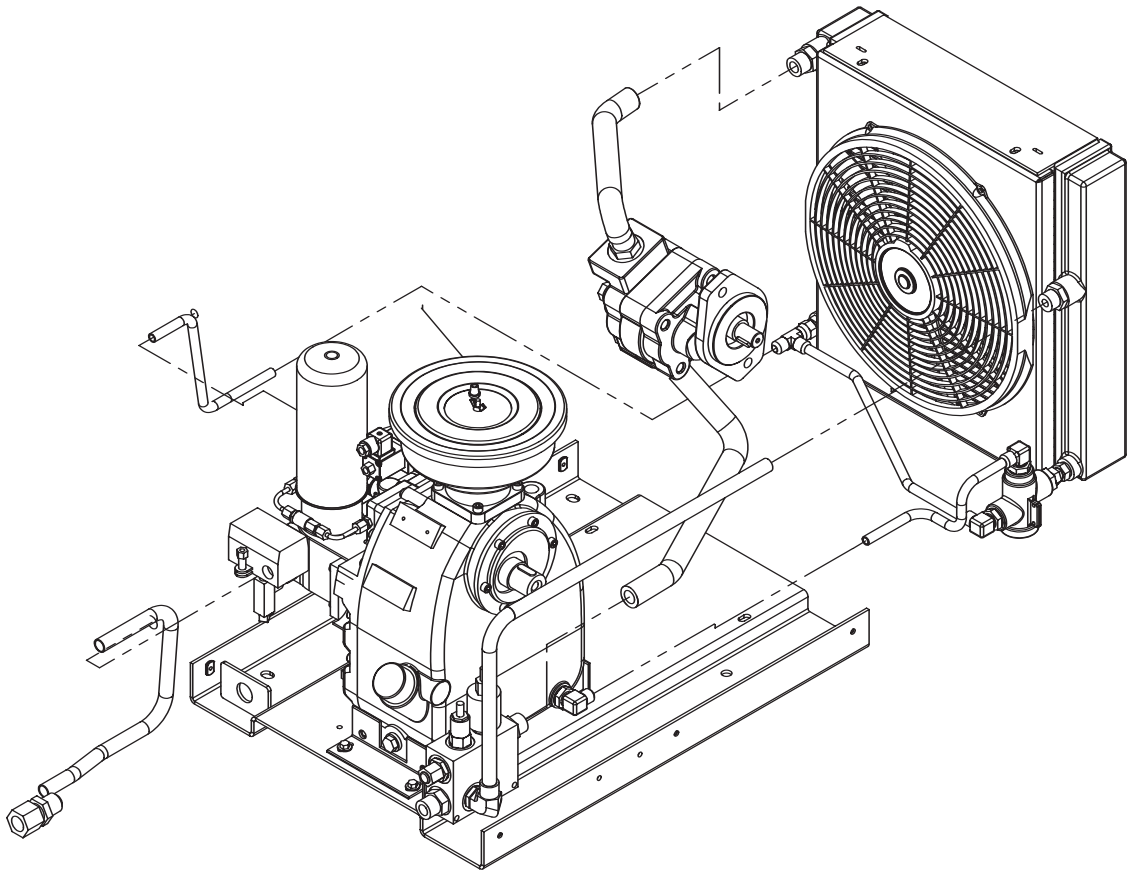
# Assembly Drawings

## Compressor Assembly



| ITEM | PART | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | 31028 | BASE WLDMT CPRSR SRS65 | 1 |
| 2 | 29391 | CPRSR SRS NK60-2 ROTORCOMP | 1 |
| 3 | 17583 | CAP SCR 10MMX30MM HHGR5 | 4 |
| 4 | 0523 | WASHER 0.38 LOCK | 4 |
| 5 | C3075 | BLOCK AL CPRSR SHD 66 | 1 |
| 6 | C0910 | CAP SCR 0.25-20X2.75 HHGR5 | 2 |
| 7 | 0343 | WASHER 0.31 USS FLAT ZINC | 10 |
| 8 | 0333 | NUT 0.25-20 HHGR5 NYLOC | 5 |
| 9 | C1180 | FTG ADAPT 8-12 F5OLO-S | 1 |
| 10 | 2772 | CAP 8FNL-S | 1 |
| 11 | C2142 | FTG ADAPT ML O'RING/ML 12-F5OLO-S | 3 |
| 12 | C4914 | VALVE RELIEF CP-200-1-B-0-A-C | 1 |
| 13 | C4913 | VALVE SOLND | 1 |
| 14 | C6145 | FTG 90 DEG | 1 |
| 15 | 22860 | FTG ADAPT MBSPP/FNPT 1/2-1/2 F4OHG MOD | 2 |
| 16 | 13579 | NIPPLE 0.50X2.50 BRASS 80300-0825 | 1 |
| 17 | 12856 | CAP 0.50 PIPE HEX 5406-8 | 1 |
| 18 | C0078 | HOSE CLAMP #8 RUBBER COATED | 1 |
| 19 | 0479 | CAP SCR 0.25-20X0.75 HHGR5 | 5 |
| 20 | 21393 | FTG BULKHEAD 12WGTX-WLN | 1 |
| 21 | 30154 | COOLER OIL ASM SRS65 | 1 |
| 22 | 31032 | SHROUD SRS65 FAN MNT | 1 |
| 23 | 0485 | CAP SCR 0.31-18X1.25 HHGR5 | 4 |
| 24 | 0522 | WASHER 0.31 LOCK | 4 |
| 25 | 5735 | NUT SERT 0.31-18X0.50 OD | 4 |
| 26 | 8241 | FAN 16.00 PUSH 12 VOLT | 1 |
| 27 | 0521 | WASHER 0.25 LOCK | 4 |
| 28 | 19589 | NUT SERT 0.25-20X0.38 OD | 4 |
| 29 | 12122 | BOLT 0.38X1.00 EYE 567-23-ZN | 1 |
| 30 | 0535 | NUT .38-16 HH | 1 |
| 31 | 21400 | FTG SWIVEL NUT/MSTR .50 8F65OX | 1 |
| 32 | 21299 | FTG ADAPT MBSPP/MJIC 8-8M40M | 1 |
| 33 | 22018 | VALVE THERMO R-2323 SRS40 | 1 |
| 34 | 21297 | FTG 90 MBSPP/MJIC 8-8C4MX | 4 |
| 35 | 30667 | BRKT MOTOR MNT SRS65 | 1 |
| 36 | 31042 | BUSHING H X 35MM | 1 |
| 37 | 34538 | SPROKET GOODYEAR EAGLE PD Y-36S-H | 1 |
| 38 | C6188 | BUSHING 1.00 | 1 |
| 39 | 34539 | SPROKET GOODYEAR EAGLE PD Y-90S-QD | 1 |
| 40 | 31043 | BELT GOODYEAR EAGLE PD Y1000 | 1 |
| 41 | 31035 | MOTOR HYD PLM3022SO-33S5-LOD/OF-N-C | 1 |
| 42 | C2269 | FTG ADAPT 12-16 F5OLO | 1 |
| 43 | 7351 | FTG ST TH ELBOW 45 DEG 12V5OLO | 1 |
| 44 | C4498 | FTG ORB/JIC STRT CONNT 12-F5OX-S | 1 |
| 45 | 4594 | FTG STRGHT THRD CONNECT 8F5OX | 1 |
| 46 | 4593 | FTG SWIVEL NUT TEE 8R6X | 1 |
| 47 | 33715 | HOSE 0.75(381-JC-J9-12-12-12-13.00) | 1 |
| 48 | 33716 | HOSE 0.75(381-JC-JC-12-12-12-14.00) | 1 |
| 49 | 33691 | TUBE ASM 0.75 COOLER/MANIFOLD SRS65 | 1 |
| 50 | 33692 | TUBE ASM 0.75 AIR/BULKHEAD SRS65 | 1 |
| 51 | 33693 | TUBE ASM 0.50 COOLER/THERMVLV SRS65 | 1 |
| 52 | 33694 | TUBE ASM 0.50 CPRSR/COOLER SRS65 | 1 |
| 53 | 33695 | TUBE ASM 0.50 CPRSR/THERMVLV SRS65 | 1 |
| 54 | 21300 | FTG 90 MJIC/MBSPP 12-8C40M | 1 |
| 55 | C0863 | SWITCH PRES COMPRESSOR | 1 |
| 56 | 8277 | FTG ST L 0.25 MNPT/0.125 FNPT SPL | 1 |
| 57 | C6245 | ELBOW 0.25 OD BRASS AIR | 2 |
| 58 | 8158 | NIPPLE 0.25 X CLOSE BRASS | 1 |
| 59 | 21298 | FTG ADAPT MBSPP/FNPT 1/4-1/4 F4OHG | 1 |
| 60 | 21549 | PANEL GAUGE MNT SRS40 | 1 |
| 61 | 21649 | GAUGE AIR SWICHGAGE PSB20PHL200 | 1 |
| 62 | 21650 | GAUGE OIL TEMP TSB20TVD3006125SR240 | 1 |
| 63 | C6021 | CAP SCR 0.25-20X0.75 BTNHD SS | 8 |
| 64 | 0340 | WASHER 0.25 FLAT | 6 |
| 65 | 22161 | COUPLER 0.13 BRASS | 1 |
| 66 | 5419 | FTG 0.50-0.25 BUSH RED BRASS | 1 |
| 67 | C5504 | VALVE RELIEF 200# | 1 |
| 68 | 26025 | CAP SCR 0.50-13X2.25 HHGR5 | 2 |
| 69 | 0352 | WASHER 0.50 USS FLAT ZINC | 4 |
| 70 | C6106 | NUT 0.50-13 HHGR5 NYLOC | 2 |
| 71 | 4591 | PLUG STR HOLLOW HEX 0.75 12-HP5ON | 1 |
| 72 | 31422 | SHROUD ASM SRS65 | 1 |
| 73 | 19592 | WASHER 0.25 FLAT NYLON | 6 |
| 74 | 9804 | DECAL SRS-65 | 2 |
| 75 | 31030 | ANGLE MNT FRONT CPRSR SRS65 | 1 |
| 76 | 0480 | CAP SCR 0.25-20X1.00 HHGR5 | 2 |
| 77 | 0342 | NUT 0.31-18 HH NYLOC | 2 |
| 78 | C6072 | BOSCH RELAY | 1 |
| 79 | 19590 | WIRING HARNESS | 1 |

# SRS-65 Tube Routing



# Replacement Parts

**HYDRAULIC COMPONENTS/DRIVE PARTS**

| PART# | DESCRIPTION |
|---|---|
| C4914 | Relief Valve |
| C4913 | Solenoid Valve |
| 31035 | Hydraulic Motor |
| 34539 | Sprocket (Hyd Motor) |
| 34538 | Sprocket (Compressor) |
| C6188 | Bushing (Hyd Motor) |
| 31043 | Belt |
| 30154 | Oil Cooler |
| C3075 | Aluminum Manifold Block |
| 33692 | Tube Assembly Air/Bulkhead 0.75 |
| 33691 | Tube Assembly Cooler/Manifold 0.75 |
| 33693 | Tube Assembly Cooler/Thermo-Valve 0.50 |
| 33694 | Tube Assembly Compressor/Cooler 0.50 |
| 33695 | Tube Assembly Compressor/Thermo-Valve 0.50 |
| 22018 | Thermo Valve |

**ELECTRICAL/AIR PRESSURE COMPONENT**

| PART# | DESCRIPTION |
|---|---|
| C0863 | Pressure Switch |
| 8241 | Fan 16.00” Pull 12 Volt |
| C6072 | Bosch Relay |
| 19590 | Wire Harness |
| 21649 | Air Switch Gauge |
| 21650 | Oil Temperature Gauge |
| C5504 | Valve Relief 200 # (Air) |

**AIR/OIL FILTER COMPONENTS**

| PART# | DESCRIPTION |
|---|---|
| 15322 | Air Filter |
| 15323 | Oil Filter |
| 15324 | Coalescering Filter (Separator Cartridge) |
| C0087 | Synthetic Compressor Oil |
| 33147 | SRS65 Compressor Service Kit (Includes all items above) |

**COMPRESSOR COMPONENTS**

| PART# | DESCRIPTION |
|---|---|
| NA | Inlet Solenoid Control Valve |
| NA | Inlet Solenoid Control Valve Assembly Complete |
| NA | Shaft Seal Kit |
| NA | Shaft Bearing Kit |
| NA | Solenoid 24 Volt DC |
| 29391 | Compressor (Air End) |
| NA | Separator Head Maintenance Kit |

# Troubleshooting

If symptoms of poor performance develop, the following chart can be used as a guide to investigate and correct the problem. When diagnosing faults in operations of the air compressor, always check that the hydraulic power source is supplying the correct hydraulic flow and pressure that is listed in the compressor specification section of this manual.

| Problem | Possible Cause | Solution |
|---|---|---|
| Compressor shuts down with air demand: | Compressor temperature. | |
| | Low oil level. | Add compressor oil to level. |
| | Fan not operating. | Check ground wire and fan switch/relay. |
| | Plugged oil filter. | Replace filter. |
| | Dirty cooler core. | Clean cooler fins. |
| | Contaminated cooler core. | Remove and clean. |
| | Hydraulic pressure and flow incorrect. | Adjust and reset according to specifications. |
| | Worn hydraulic motor. | Replace. |
| Compressor will not build up pressure: | Air demand too great. | Tighten air hose clamps. Repair air leaks. |
| | Air filter plugged. | Clean or replace. |
| | Pressure switch out of adjustment | Readjust to specifications. |
| | Faulty pressure switch. | Replace. |
| | Compressor speed too slow. | Check hydraulic flow and pressure. |
| | Drive belt slipping. | Readjust and tighten. |
| | Service valve wide open. | Close valve. |
| | Solenoid valve on. | |
| | Hyd. manifold valve stuck (closed). | Clean or replace. |
| Compressor over pressures: | Defective pressure switch. | Replace. |
| | Air control line leaking. | Check and correct. |
| | Inlet valve stuck. | Clean and replace. |
| | Restriction in control line (dirt/ice). | Clean and free up. |

| Problem | Possible Cause | Solution |
|---|---|---|
| Compressor Stalls: | Belt Slipping. | Readjust and tighten. |
| | Insufficient hydraulic system pressure or flow.<br><br>*This can occur if another hydraulically activated component is used off the same pump system. Activating the secondary component may drop hydraulic supply system pressure/flow and leave insufficient for compressor. Not: Even a momentary drop in hydraulic supply pressure or flow may initiate compressor blowdown to commence. | Check the following:<br>1. Setting on supply pressure system relief valve.<br>2. Ensure adequate pressure and flow.<br>3. Check and see if other hydraulic system's activated off same hydraulic supply. |
| | Pressure relief set too low. | Readjust. |
| | Pressure relief seals leaking. | Replace. |
| | Air pressure set to high for hydraulic system. | Adjust pressure switch to reduce air pressure. |
| | Solenoid valve cartridge seals leaking on hydraulic manifold assembly. | Replace with new cartridge. |
| | Hydraulic reservoir low on oil. | Add to level. |
| Compressor noisy or loud when starting compressor in cold weather: | ICE buildup inside compressor from condensation. | Engage PTO and allow hydraulic fluid to circulate and warm system up before engaging compressor. |
| Compressor synthetic oil has a milky appearance: | Coalescering/Separator cartridge clogged or plugged. | Replace cartridge and change compressor oil. |
| Excessive oil level in compressor: | Internal crack inside oil cooler. | Replace cooler, change filters and compressor oil. |

**Limited Warranty Statement**

American Eagle warrants products designed and manufactured by Stellar to be free from defects in material and workmanship under proper use and maintenance. Products must be installed and operated in accordance with Stellar's written instructions and capacities. The warranty period shall cover the following:

Twelve (12) month warranty on parts and
Twelve (12) month repair labor

The warranty period shall begin from the date recorded by American Eagle as the in-service date. This date will be derived from the completed warranty registration card. In the event a warranty registration card is not received by American Eagle, the factory ship date will be used. New compressors will be issued on all returns within 90 days of this factory ship date. After 90 days, American Eagle reserves the right to issue remanufactured compressors. Regardless of in-service date, warranty coverage does not extend beyond twenty-four (24) months from date of manufacture.

American Eagle's obligation under this warranty is limited to, and the sole remedy for any such defect shall be, the repair and/or replacement (at American Eagle's option) of the unaltered part and/or component in question. American Eagle after-sales service personnel must be notified by telephone, fax, or letter of any warranty-applicable damage within fourteen (14) days of its occurrence. If at all possible, American Eagle will ship the replacement part within 24-hours of notification by the most economical, yet expedient, means possible. Expedited freight delivery will be at the expense of the owner.

Warranty claims must be submitted and shall be processed in accordance with American Eagle's established warranty claim procedure. American Eagle after-sales service personnel must be contacted prior to any warranty claim. A return materials authorization (RMA) account number must be issued to the claiming party prior to the return of any warranty parts. Parts returned without prior authorization will not be recognized for warranty consideration. All damaged parts must be returned to American Eagle freight prepaid; freight collect returns will be refused. Freight reimbursement of returned parts will be considered as part of the warranty claim.

Warranty service will be performed by any American Eagle new equipment distributor, or by any American Eagle-recognized service center authorized to service the type of product involved, or by the American Eagle factory in the event of a direct sale. At the time of requesting warranty service, the owner must present evidence of date of delivery of the product. The owner shall be obligated to pay for any overtime labor requested of the servicing company by the owner, any field service call charges, and any towing and/or transportation charges associated with moving the equipment to the designated repair/service provider.

All obligations of American Eagle and its authorized dealers and service providers shall be voided if someone other than an authorized American Eagle dealer provides other than routine maintenance service without prior written approval from American Eagle. In the case repair work is performed on a American Eagle-manufactured product, original American Eagle parts must be used to keep the warranty in force. The warranty may also be voided if the product is modified or altered in any way not approved, in writing, by American Eagle.

The owner/operator is responsible for furnishing proof of the date of original purchase of the American Eagle product in question. Warranty registration is the ultimate responsibility of the owner and may be accomplished by the completion and return of the American Eagle product registration card provided with the product. If the owner is not sure of registration, he is encouraged to contact American Eagle at the address below to confirm registration of the product in question. This warranty covers only defective material and workmanship. It does not cover depreciation or damage caused by normal wear and tear, accident, mishap, untrained operators, or improper or unintended use. The owner has the obligation of performing routine care and maintenance duties as stated in American Eagle's written instructions, recommendations, and specifications. Any damage resulting from owner/operator failure to perform such duties shall void the coverage of this warranty. The owner will pay the cost of labor and supplies associated with routine maintenance.

The only remedies the owner has in connection with the breach or performance of any warranty on the American Eagle product specified are those set above. In no event will American Eagle, the American Eagle distributor/dealer, or any company affiliated with American Eagle be liable for business interruptions, costs of delay, or for any special, indirect, incidental, or consequential costs or damages. Such costs may include, but are not limited to, loss of time, loss of revenue, loss of use, wages, salaries, commissions, lodging, meals, towing, hydraulic fluid, or any other incidental cost.

All products purchased by American Eagle from outside vendors shall be covered by the warranty offered by that respective manufacturer only. American Eagle does not participate in, or obligate itself to, any such warranty.

American Eagle reserves the right to make changes in design or improvement upon its products without imposing upon itself the same upon its products theretofore manufactured.

This warranty will apply to all American Eagle Drawer Sets and Compressed Air Systems shipped from American Eagle's factory after July 1, 2005. The warranty is for the use of the original owner only and is not transferable without prior written permission from American Eagle.

THIS WARRANTY IS EXPRESSLY IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. REMEDIES UNDER THIS WARRANTY ARE LIMITED TO THE PROVISION OF MATERIAL AND SERVICES, AS SPECIFIED HEREIN. AMERICAN EAGLE INDUSTRIES, INC. IS NOT RESPONSIBLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

Revision Date: March 2006

Document Number: 37042

ULTRACHEM INC.
900 CENTERPOINT BLVD.
NEW CASTLE, DE 19720
(302) 325-9880

# MATERIAL SAFETY DATA SHEET

## CHEMLUBE® 229A

| EFFECTIVE DATE: 6/8/05 | SUPERCEDES: 8/21/03 |
|---|---|

### I. PRODUCT IDENTIFICATION:

Trade Name: Chemlube 229A
Chemical Name: Diester
Chemical Family: Fatty Acid Ester

### II. COMPONENTS & HAZARD STATEMENT:

**This product is non-hazardous**. The product contains no known carcinogens. No special warning labels are required under OSHA CFR 1910.1200.

### III. PHYSICAL DATA:

| | |
|---|---|
| Viscosity: | 44 cSt. @ 40°C |
| Specific Gravity (Water = 1.0): | 0.96 |
| Boiling Point: | Not Determined |
| Vapor Pressure: | Negligible |
| Appearance & Odor: | Liquid; Straw Color; Bland Odor |
| Solubility in Water: | Negligible |
| Other Data: | Non-toxic USDA H-2 approved |

### IV. FIRE & EXPLOSION HAZARD DATA:

| | |
|---|---|
| Flash Point, ASTM D92: | 500°F |
| Autoignition Temperature:: | Not Determined |
| Flammability Limits: | Not Established |
| Extinguishing Media: | Dry Chemical; $CO_2$ Foam; Water Spray |
| Special Fire Fighting Procedure: | Burning may produce irritating/noxious fumes. Firefighters should use NIOSH/MNSA approved self-contained breathing apparatus. Use water to cool fire-exposed containers to prevent pressure build-up. |

### V. REACTIVITY DATA:

| | |
|---|---|
| Stability: | This product is stable and will not react with water. |
| Materials to Avoid: | Avoid strong oxidizers |
| Hazardous Decomposition Products: | Carbon monoxide, Carbon dioxide |

### VI. HEALTH INFORMATION:

| | |
|---|---|
| Eye Contact: | Flush eyes with water for 15 minutes. Call a physician if irritation develops. |
| Skin Contact: | Wash skin with soap and water. |
| Inhalation: | Remove to fresh air. |
| Ingestion: | First aid not normally required. If uncomfortable, call physician. |

| EFFECTIVE DATE: 6/8/05 | SUPERCEDES: 8/21/03 |
|---|---|
| PRODUCT: Chemlube 229A | |

| VII. HEALTH HAZARD DATA: | |
|---|---|
| Exposure Limits: | Not applicable |
| Effects of Overexposure: | Low oral and dermal toxicity. Prolonged or repeated exposure may cause irritation, nausea, and vomiting. |

**VII. EMPLOYEE PROTECTION:**

For general personal hygiene, wash hands thoroughly after handling material. Avoid contact with skin and eyes.
Chemical impervious gloves are recommended for prolonged exposure.
Use in a well ventilated area

| VIII. STORAGE, SPILL & DISPOSAL PROCEDURES: | |
|---|---|
| Storage: | Store in clean, dry area. |
| Spills: | Use absorbent materials to soak up fluid. |
| Disposal: | Incinerate this product and all associated wastes in a licensed facility in accordance with Federal, state, and local regulations. |

| IX. HAZARD RATING INFORMATION: | | | |
|---|---|---|---|
| | HMIS | KEY | |
| Health: | 1 | 4=Severe | 0=Minimal |
| Flammability: | 1 | 3=Serious | |
| Reactivity: | O | 2=Moderate | B=Gloves,Goggles |
| Personal Protection: | B | 1=Slight | |

This information contained herein is based on the data available to us and is believed to be true and accurate. Ultrachem makes no warranty, expressed or implied, regarding the accuracy of this data or the results to be obtained from the use thereof. Ultrachem assumes no responsibility for injury from the use of this product.

**For Additional Information:**

**Ultrachem Inc.**
**900 CENTERPOINT BLVD.**
**NEW CASTLE, DE 19720**
**(302) 325-9880**